=> fil reg

FILE 'REGISTRY' ENTERED AT 07:55:23 ON 21 MAR 2009

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STRUCTURE FILE UPDATES: 19 MAR 2009 HIGHEST RN 1123923-98-7 DICTIONARY FILE UPDATES: 19 MAR 2009 HIGHEST RN 1123923-98-7

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# http://www.cas.org/support/stngen/stndoc/properties.html

=> d que 117

L5 STR

REP G1=(0-10) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 11

STR

STEREO ATTRIBUTES: NONE
L7 4380 SEA FILE=REGISTRY SSS FUL L5

REP G1=(0-10) C

L15

REP G2=(1-20) 15-3 13-5

# 10/576,892

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

NUMBER OF NODES IS 15

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED

STEREO ATTRIBUTES: NONE

L17 0 SEA FILE=REGISTRY SUB=L7 SSS FUL L15

=> d que 112 L3 STR

\$\frac{7}{5}\tag{2}\tag

REP G1=(0-10) C REP G2=(1-20) 13-3 15-5 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

7 ÇH2**=**Ç**~**€3 ÇH2**=**Ç**~**€3 2 **€ € 6**1 **N** 11

REP G1=(0-10) C NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L7 4380 SEA FILE=REGISTRY SSS FUL L5 L10 56 SEA FILE=REGISTRY SUB=L7 SSS FUL L3 L12 24 SEA FILE=HCAPLUS ABB=ON PLU=ON L10

=> fil hcap FILE 'HCAPLUS' ENTERED AT 07:55:36 ON 21 MAR 2009

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FILE COVERS 1907 - 21 Mar 2009 VOL 150 ISS 13 FILE LAST UPDATED: 20 Mar 2009 (20090320/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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### http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 112 1-24 ibib ed abs hitstr hitind

L12 ANSWER 1 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2008:1073367 HCAPLUS Full-text

DOCUMENT NUMBER: 149:333183

TITLE: Polymerizable liquid crystal compounds and

compositions, liquid crystal polymers and optically anisotropic substances

optically anisotropic substances
INVENTOR(S): Sakamoto, Kei; Yachi, Yoshihide; Koqoshi, Naoto

PATENT ASSIGNEE(S): Zeon Corporation, Japan

SOURCE: PCT Int. Appl., 108pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA1	ENT I	NO.			KIN	D	DATE			APPL	ICAT	I ON I	NO.		D	ATE
						-										
WO	2008	1055	38		A1		2008	0904		WO 2	008-	JP53	670		2	0080229
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		BZ,	CA,	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,
		EG,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,
		IS,	JP,	KE,	KG,	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,
		LU,	LY,	MA,	MD,	ME,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,
		SL,	SM,	SV,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,
		VN,	ZA,	ZM,	ZW											
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		HU,	IE,	IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	NO,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,
		NE,	SN,	TD,	TG,	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,

TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.: JP 2007-51440 A 20070301

ED Entered STN: 05 Sep 2008

0.7

- AB The liquid crystal compds. have a formula I (MI = 06-24 aromatic hydrocarby) group having 3-4 bonds; Y1, Y2, Y3, Y4, Y5, Y6, Y7, Y8 = -C(=0)-0-CH2CH2-0-, -C(=0)-0-CH2CH2-, etc.; G1, G2, G3 = C1-20 bivalent aliphatic group, etc.; Z1, Z2, Z3 = C2-10 alkenyl group, etc.; A1, A2 = C4-24 bivalent or trivalent aromatic-ring containing group, etc.; A1, A2 = C4-24 bivalent or trivalent aromatic-ring containing group, etc.; a, b = 0, 1 or 2; p, cq. r = 0 or 1.). The compds. can polymerize to give liquid crystal polymers with extremely high optical anisotropy, good solubility in organic solvents and compatibility with various additives such as alignment agents, and moldability.
- IT 1052113-46-8P
  (liquid crystal compds, and compns, for manufacture of liquid crystal

polymers and optically anisotropic substances with high optical anisotropy, good solubility and compatibility)

RN 1052113-46-8 HCAPLUS

Total variable of North Carlotte (2-[(2-propen-1-ylamino)carbonyl]-1,4-phenylene]bis(oxycarbonyl[1,1'-biphenyl]-4',4-diyl)]
4,4'-bis[2-[(1-oxo-2-propen-1-yl)oxy]ethyl] ester, homopolymer (CA INDEX NAME)

CM 1

CRN 1052113-33-3 CMF C54 H47 N 017

PAGE 1-A

$$\mathbf{H}_{2}\mathbf{C} = \mathbf{C}\mathbf{H} = \begin{pmatrix} \mathbf{\hat{U}} & \mathbf{C}\mathbf{H}_{2} - \mathbf{C}\mathbf{H}_{2$$

# 10/576,892

PAGE 1-B

PAGE 1-C

-CH=CH2

IT 1052113-33-3P

(polymerizable compound; liquid crystal compds. and compns. for manufacture of liquid crystal polymers and optically anisotropic substances with  $\,$ 

high optical anisotropy, good solubility and compatibility)

RN 1052113-33-3 HCAPLUS

CN Butanedioic acid, 1,1'-[[2-[(2-propen-1-ylamino)carbonyl]-1,4phenylene|bis(oxycarbonyl[1,1'-biphenyl]-4',4-diyl)]
4,4'-bis[2-[(1-oxo-2-propen-1-vl)oxylethyl] ester (CA INDEX NAME)

PAGE 1-A

$$H_2c$$
  $= cH_2$   $= cH_2 - cH_$ 

PAGE 1-B

PAGE 1-C

-CH-CH2

```
CC 37-3 (Plastics Manufacture and Processing)
    Section cross-reference(s): 38, 73
    1052113-39-9P 1052113-40-2P 1052113-41-3P 1052113-42-4P
    1052113-43-5P 1052113-44-6P 1052113-45-7P 1052113-46-8P
    1052113-47-9P 1052113-48-0P 1052113-49-1P
       (liquid crystal compds. and compns. for manufacture of liquid crystal
       polymers and optically anisotropic substances with high optical
       anisotropy, good solubility and compatibility)
    1017573-61-3P 1052113-22-0P 1052113-23-1P 1052113-26-4P
    1052113-28-6P 1052113-29-7P 1052113-30-0P 1052113-31-1P
    1052113-33-3P 1052113-34-4P 1052113-37-7P
        (polymerizable compound; liquid crystal compds. and compns. for manufacture
       of liquid crystal polymers and optically anisotropic substances with
       high optical anisotropy, good solubility and compatibility)
REFERENCE COUNT:
                             THERE ARE 15 CITED REFERENCES AVAILABLE FOR
                        15
```

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2007:322778 HCAPLUS Full-text

DOCUMENT NUMBER: 146:359309 TITLE:

Photoreactive compounds and polymers for alignment

of liquid crystals

INVENTOR(S): Cherkaoui, Zoubair Mohammed; Reichardt, Joachim;

Studer, Peggy; Seiberle, Hubert

PATENT ASSIGNEE(S): Rolic AG, Switz. SOURCE: Eur. Pat. Appl., 77pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATE					KIN	)	DATE		- 2	APPL						ATE
EP 1		105			A1	-	2007	0321	1				49			0050920
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		ΙE,	IS,	IT,	LI,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,
		TR,	AL,	BA,	HR,	MK,	YU									
WO 2	iO 2007033506				A1		2007	0329	1	NO 2	006-0	CH49	9		20	0060915
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,
		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,
		GB,	GD,	GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
		KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,
		MD,	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,
		PH,	PL,	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,
		IE,	IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,

											, SD,	SL,	SZ,	TZ,	UG,	ZM,	
			AM,	AZ,							, TM						
EP	1928	979			A1		2008	0611		EP	2006-	7751	92		2	0060	915
EP	1928	979			B1		2009	0304									
	R:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE	, ES,	FΙ,	FR,	GB,	GR,	HU,	
		IE,	IS,	IT,	LI,	LT,	LU,	LV,	MC,	NL	, PL,	PT,	RO,	SE,	SI,	SK,	TR
JP	2009	51143	31		T		2009	0319		JP	2008-	5315	00		2	0060	915
KR	2008	05051	83		A		2008	0609		KR	2008-	7067	16		2	0080	319
US	2008	02743	304		A1		2008	1106		US	2008-	6737	6		2	0800	319
CN	1012	6816	8		A		2008	0917		CN	2006-	8003	4704		2	0800	320
IN	2008	CN01	378		A		2008	1128		IN	2008-0	CN13	78		2	0800	320
PRIORITY	Y APP	LN.	INFO	. :						EP	2005-	4055	49	i	A 2	0050	920
										wo	2006-0	CH49	9	1	vi 2	0060	915

- ED Entered STN: 22 Mar 2007
- AB GSA(CHX-CHYB)n [A, B = (substituted) 5-40-atom ring containing 21 unsatn. directly connected via electron conjugation to the double bond, S = single bond or spacer unit, n = 1,2, or 3, X, Y = groups of which 1 is a H and the other is an electron-withdrawing group, G = H, (substituted) alkyl, or a polymerizable group, with the proviso, that when Y = CN and A = unsubstituted phenylene, B \* phenylene para-substituted by CN, NO2, or CO2H, and with the proviso, that if A = 1,4-phenylene substituted by halogen, CN, and(or) NO2, and B = 1,4-phenylene [substituted by halogen, CN, and(or) NO2], pyrimidine-2,5-diyl, pyridine-2,5-diyl, 2,5-thiophenylenediyl, 2,5-furanylene, 1,4-naphthylene, or 2,6-naphthylene, then X \* CN or CO2-C1-12-alkyl] and their polymers (when G is a polymerizable group) exhibit high photosensitivity and broad processability window for the alignment of liquid crystals. A typical polymer was manufacture by radical polymerization of 8-[4-[2-cyano-2-(3,4-dimethoxyphenyl) vinyl]-2-methoxyphenoxyloctyl methacrylate.
- IT 929644-01-9P

(photoreactive compds. and polymers having 2 aromatic rings connected by vinyl group for alignment of liquid crystals)

- RN 929644-01-9 HCAPLUS CN 2-Propencic acid. 2-1
  - 2-Propenoic acid, 2-methyl-, 2-[2-[4-[(1E)-2-cyano-2-(3,4-dimethoxyphenyl)ethenyl]-2-methoxyphenoxy]ethoxy]ethyl ester, homopolymer (CA INDEX NAME)
    - CM :
    - CRN 929644-00-8
    - CMF C26 H29 N O7

Double bond geometry as shown.

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 74, 75

IT 929643-73-2P 929643-77-6P 929643-79-8P 929643-81-2P 929643-81-2P 929643-81-2P 929643-81-2P 929643-98-0P 929643-98-0P 929643-99-1P 929643-91-3P 929643-96-3P 929643-96-3P 929644-01-3P 929644-01-3P 929644-01-3P 929644-01-3P 929644-11-1P 929644-13-3P 929644-15-5P 929644-17-7P 929644-17-7P 929644-17-7P 929644-21-4P 92

929709-49-9P 929876-15-3P (photoreactive compds. and polymers having 2 aromatic rings connected by vinyl group for alignment of liquid crystals)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
THIS RECORD, ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L12 ANSWER 3 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2006:1117855 HCAPLUS Full-text

DOCUMENT NUMBER: 145:438998

TITLE: Curable compounds forming hydrolysis-resistant

polymer products, preparation thereof, and

compositions therewith INVENTOR(S): Fukada, Akihiko

PATENT ASSIGNEE(S): Nippon Shokubai Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006290790	A	20061026	JP 2005-113139	20050411
PRIORITY APPLN. INFO.:			JP 2005-113139	20050411

ED Entered STN: 26 Oct 2006

AB Compds. H2C:CRICONRZR3OH (R1 = H, Me; R2 = H, Cl-6 alkyl; R3 = C2-6 alkylene) are reacted with vinyl ethers to afford title compds. (i.e., monomers). The Markush compds. above may be N-hydroxyethyl(meth)acrylamide. Compns. of the monomers and basic compds., for inks, coatings, adhesives, etc., are also claimed. Thus, 115 g N-hydroxyethylacrylamide was reacted with 131 g triethylene glycol divinyl ether in the presence of 4-hydroxy-2,2,6,6-tetramethylpiperidine-N-oxyl and HCl at 30° to give a compound (NMR and IR chart given).

IT 913079-01-3P

(preparation of acrylamidoalkyl-bearing curable compds. forming polymers with excellent hydrolysis resistance)

RN 913079-01-3 HCAPLUS

CN 2-Propenoic acid, 7-methyl-12-oxo-3,6,8-trioxa-11-azatetradec-13-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 913078-98-5

CMF C14 H23 N O6

913078-98-52

(preparation of acrylamidoalkyl-bearing curable compds. forming polymers with excellent hydrolysis resistance)

- RN 913078-98-5 HCAPLUS CN 2-Propenoic acid, 7-methyl-12-oxo-3,6,8-trioxa-11-azatetradec-13-en-1yl ester (CA INDEX NAME)
- O-CH2-CH2-O-CH2-CH2-O
- 35-2 (Chemistry of Synthetic High Polymers)
- Section cross-reference(s): 37, 38
- 913078-99-6P 913079-00-2P 913079-01-3P

(preparation of acrylamidoalkyl-bearing curable compds, forming polymers with excellent hydrolysis resistance)

913078-96-3P 913078-97-4P 913078-98-5P TТ

(preparation of acrylamidoalkyl-bearing curable compds. forming polymers with excellent hydrolysis resistance)

L12 ANSWER 4 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2006:513615 HCAPLUS Full-text

DOCUMENT NUMBER: 145:9680

TITLE: Copolymerizable methine and anthraguinone compounds and articles containing them

INVENTOR(S): Pearson, Jason Clay; Weaver, Max Allen; Fleischer,

Jean Carroll; King, Gregory Allan

PATENT ASSIGNEE(S): Advanced Medical Optics, Inc., USA SOURCE:

PCT Int. Appl., 69 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE			APPL	ICAT:	ION	NO.		D	ATE
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WO 2006	0578	24		A2		2006	0601		WO 2	005-1	US40	897		2	0051110
WO 2006	0578		A3		2006	1005									
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	MK,	MN,	MW,	MX,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,
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	TZ.	IIA.	HG.	IIS.	HZ.	VC.	VN.	YII.	ZA.	ZM.	ZW				

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             TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
     AU 2005309912
                         A1
                               20060601
                                           AU 2005-309912
                                                                   20051110
     CA 2588528
                         A1
                               20060601
                                            CA 2005-2588528
                                                                   20051110
     US 20060115516
                                20060601
                                            US 2005-271382
                                                                   20051110
                         A1
     EP 1815274
                         A2
                                20070808
                                            EP 2005-825349
                                                                   20051110
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                               20080619
                                            JP 2007-543134
     JP 2008520352
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                                                                   20051110
     BR 2005018030
                                20081028
                                            BR 2005-18030
                                                                   20051110
                          Α
     US 20090076235
                                            US 2008-257277
                         A1
                               20090319
                                                                   20081023
PRIORITY APPLN. INFO.:
                                            US 2004-629556P
                                                                P 20041122
                                            US 2005-271382
                                                               A1 20051110
                                            WO 2005-US40897
                                                                W 20051110
```

OTHER SOURCE(S): CASREACT 145:9680 ED Entered STN: 01 Jun 2006

GI

AB Polymerizable compds. having anthraquinone groups or methine groups attached to furan rings ortho to the O, Ph rings with substituted N or O para to the attachment are useful for manufacture of polymeric UV light absorbers and yellow colorants for use in ophthalmic lenses. A typical compound I was manufactured by reaction of Me cyanoacetate with ethanolamine, reaction of the resulting N-(2-hydroxyethyl)cyanoacetamide with N-(p-formylphenyl)thiomorpholine S,S-dioxide, and esterification of the terminal OH group of the 2nd intermediate with methacrylic anhydride.

IT 1057003-67-4

(Copolymerizable methine and anthraquinone compounds and articles containing them)

RN 1057003-67-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[2-[[(2E)-2-cyano-1-oxo-3-[4-(phenylmethoxy)phenyl]-2-propen-1-yl]amino]ethoxy]ethyl ester (CA INDEX NAME)

Double bond geometry as shown.

$$\mathsf{Ph} = \mathsf{Ph} = \mathsf{Ph$$

41-6 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers) Section cross-reference(s): 38, 63 94-21-3 17354-79-9 1057003-36-7 1057003-37-8 1057003-38-9 1057003-40-3 1057003-41-4 1057003-39-0 1057003-42-5 1057003-43-6 1057003-44-7 1057003-45-8 1057003-46-9 1057003-47-0 1057003-48-1 1057003-49-2 1057003-50-5 1057003-51-6 1057003-52-7 1057003-53-8 1057003-54-9 1057003-55-0 1057003-56-1 1057003-57-2 1057003-58-3 1057003-59-4 1057003-60-7 1057003-61-8 1057003-62-9 1057003-63-0 1057003-64-1 1057003-65-2 1057003-66-3 1057003-67-4 1057003-68-5 1057003-69-6 1057003-70-9 1057003-71-0 1057003-72-1 1057003-73-2 1057003-74-3 1057003-75-4 1057003-76-5 1057003-77-6 1057003-78-7 1057003-79-8 1057003-80-1 1057003-81-2 1057003-82-3 1057003-83-4 1057003-84-5 1057003-85-6 1057003-86-7 1057003-87-8 1057003-88-9 1057003-89-0 1057003-90-3 1057003-91-4 1057003-92-5 1057003-93-6 1057003-94-7 1057003-95-8 1057003-96-9 1057003-97-0 1057003-98-1 1057003-99-2 1057004-00-8 1057004-01-9 1057004-02-0 1057004-03-1 1057004-04-2 1057004-05-3 1057004-06-4 1057004-07-5 1057004-08-6 1057004-09-7 1057004-10-0 1057004-11-1 1057004-12-2 1107648-06-5 1107648-28-1

1107648-57-6 1107648-67-8 (Copolymerizable methine and anthraquinone compounds and articles containing them)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT.

L12 ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2005:1123809 HCAPLUS Full-text

DOCUMENT NUMBER: 143:411051

TITLE: Bioresponsive polymer system for delivery of

microbicides

INVENTOR(S): Kiser, Patrick F.; Katz, David F.; Stewart,

Russell J.

PATENT ASSIGNEE(S): The University of Utah Research Foundation, USA

PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

SOURCE:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2005097210 A1 20051020 WO 2005-US10285 20050328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, F1, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,

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KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
            MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
             SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ,
             VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
             AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
             DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
            NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
             GN. GO. GW. ML. MR. NE. SN. TD. TG
    AU 2005231738
                              20051020
                                           AU 2005-231738
                         A2
    AU 2005231738
                         A1
                              20051020
    CA 2561174
                              20051020 CA 2005-2561174
20070103 EP 2005-726158
                                                                  20050328
                         A1
     EP 1737500
                         A1
        R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
             IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
                        A1 20070719
     US 20070166382
                                           US 2006-594196
                                                                   20060925
PRIORITY APPLN. INFO.:
                                           US 2004-556796P
                                                              P 20040326
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ED Entered STN: 20 Oct 2005

AB The polymer systems of the present invention degrade in the presence of an ejaculate. They may further provide degradable sequences that degrade upon contact with an ejaculate and/or microbicides. The polymer systems of the present invention are of use in the oral, rectal or vaginal cavities of an individual for such purposes as the treatment or prevention of sexually transmitted disease, the prevention or promotion of fertility or for hormone replacement therapy. Poly(hydroxypropylmethacrylate-nitrophenylcarbonate) was crosslinked with FEG-NIZ-FRO-Phe-Arg-Giy-OH to obtain a gel. The above gel was completely degraded in 3 days when incubated in 3 fresh aliquots of seminal fluid every 24 h.

WO 2005-US10285

W 20050328

IT 867061-41-4P

RN

(bioresponsive polymer system for delivery of microbicides) 867061-41-4 HCAPLUS

CN Butanedioic acid, 1-[1-methyl-2-[(2-methyl-1-oxo-2-propen-1-yl)amino]ethyl] 4-[1-methyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxylethyl] ester (CA INDEX NAME)



IT 867061-43-6P

(bioresponsive polymer system for delivery of microbicides)

RN 867061-43-6 HCAPLUS

CN Butanedioic acid, 1-methyl-2-[(2-methyl-1-oxo-2-propenyl)amino]ethyl 1-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 867061-41-4 CMF C18 H27 N O7

CM

CRN 923-26-2 CMF C7 H12 O3

ICM A61K051-00 TC

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 38

7397-62-8P, Butyl glycolate 107194-33-2P 865135-86-0P 867061-36-7P 867061-39-0P 867061-41-4P 867061-50-5DP, ethoxylated derivs., polymers with methacrylic monomers (bioresponsive polymer system for delivery of microbicides)

67703-97-3P 147369-81-1P 867061-43-6P 867061-46-9P

867061-48-1DP, polymers with ethoxylated peptides 867061-49-2P (bioresponsive polymer system for delivery of microbicides)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2005:563437 HCAPLUS Full-text

DOCUMENT NUMBER: 143:97824

TITLE: (Meth)acrylates of unsaturated aminoalcohols and

their production.

INVENTOR(S): Hermeling, Dieter; Daniel, Thomas; Elliot, Mark; Riegel, Ulrich; Dietsche, Frank; Schwalm, Reinhold

PATENT ASSIGNEE(S): BASF A.-G., Germany SOURCE: Ger. Offen., 25 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent. LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		Di	ATE
DE 1035 WO 2005				A1 A1		2005 2005			DE 2 WO 2					_	0031125 0041118
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,
	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,
	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,
	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,
	MX,	MZ,	NA,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,
	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,
	VC,	VN,	YU,	ZA,	ZM,	ZW									
RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,

AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 2004-797969 20060816 EP 1689796 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS CN 1886435 20061227 CN 2004-80034837 20041118 A CN 100374473 C 20080312 JP 2007516240 T 20070621 JP 2006-540312 20041118 A1 20070222 US 20070043191 US 2006-576892 20060424 PRIORITY APPLN. INFO.: DE 2003-10355401 A 20031125 WO 2004-EP13064 W 20041118

OTHER SOURCE(S): MARPAT 143:97824

- ED Entered STN: 30 Jun 2005
- AB (Meth)acrylates of unsatd. aminoalcs. (such as diallylamine, allylamine and allylamethylamine) prepared by reacting allylaminopolyether with (meth)acrylates in the presence of esterification catalysts are used as a crosslinking agent for manufacture of crosslinked swellable hydrogel-forming polymers (superabsorbing polymers) from hydrophilic monomers.
- IT 856221-40-4P 856221-41-5P

(crosslinker; (meth)acrylates of unsatd. aminoalcs. prepared by reacting allylaminopolyether with (meth)acrylates as a crosslinker swellable hydrogel-forming polymers)

- RN 856221-40-4 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1),  $\alpha$ -(1-oxo-2-propeny1)- $\omega$ -[2-(di-2-propeny1amino)ethoxy]- (9CI) (CA INDEX NAME)

- RN 856221-41-5 HCAPLUS
- CN Poly(oxy-1,2-ethanediy1),  $\omega$ -hydroxy- $\omega$ '-[(1-oxo-2-propeny1)oxy]- $\omega$ , $\omega$ '-[(2-propeny1imino)di-2,1-ethanediy1]bis-(9CI) (CA INDEX NAME)

PAGE 1-B

IC ICM C07C219-08

ICS C07C213-06; C08F283-01; A61L015-22

CC 35-5 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 23

IT 856221-40-4P 856221-41-5P

(crosslinker; (meth)acrylates of unsatd. aminoalcs. prepared by reacting allylaminopolyether with (meth)acrylates as a crosslinker swellable hydrogel-forming polymers)

L12 ANSWER 7 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2004:822755 HCAPLUS Full-text

DOCUMENT NUMBER: 141:340487

DOCUMENT NUMBER: 141:34046/

TITLE: Optical data carrier with polymer network in

information layer

INVENTOR(S): Berneth, Horst; Bruder, Friedrich-Karl; Hagen, Rainer; Hassenrueck, Karin; Kostromine, Serguei;

Krueger, Christa Maria; Meyer-Friedrichsen, Timo;

Oser, Rafael; Stawitz, Josef-Walter

PATENT ASSIGNEE(S): Bayer Chemicals A.-G., Germany

SOURCE: Ger. Offen., 131 pp.

CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.																ATE
D	Œ	10313	3173			A1											0030325
W	Ю	20040	08639	90		A1		2004	1007		WO 2	004-1	EP25	85		2	0040312
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,
			CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,
			GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,
			KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,
			MX,	MZ,	NA,	NI,	NO.	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,
			SE,	SG,	SK,	SL,	SY,	TJ.	TM.	TN.	TR.	TT.	TZ.	UA.	UG,	US,	UZ,
			VC.	VN.	YU,	ZA.	ZM,	ZW									
		RW:	BW.	GH,	GM,	KE,	LS.	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
									TJ,								
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									ВJ,								
						SN.										- ~ /	
E	iΡ	16115	574		,	A1	,	2006	0104		EP 2	004-	7199	36		2	0040312
		R:	AT.	BE.	CH.	DE.	DK.	ES.	FR,	GB.	GR.	IT.	LI.	LU.	NL.	SE.	MC.
									RO,								
			PL.									,	,				
C	IN	17649				Α		2006	0426		CN 2	004-	8000	8219		2	0040312
J	ſΡ	2006	5212	2.0		Т		2006	0921		JP 2	006-	5000	60		2	0040312
		2007						2007	0222		JS 2	005-	5491	0.0		2	0050913
PRIORI																A 2	0030325
											WO 2	004-	EP25	85	1	vi 2	0040312

- ED Entered STN: 08 Oct 2004
- AB The invention relates to an optical data storage device with at least one information layer, wherein the information layer contains the polymer network with covalent bonded light-absorbable compds. Monomers for the polymer network are prepared
  - IT 769934-77-2P 769934-78-3P (monomer preparation for polymer network; optical data carrier with
    - polymer network in information layer) 769934-77-2 HCAPLUS
- RN 769934-77-2 HCAPLUS
  CN 2,4-Pentadienoic acid, 5-(acetylphenylamino)-2-cyano-,
  2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)
  - H2C O CH2 CH2 O U I CH CH CH CH
- RN 769934-78-3 HCAPLUS
- CN 2,4-Pentadienoic acid, 2-cyano-5-[(2-hydroxyethyl)methylamino]-, 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

- IT 769934-93-2P 769935-06-0P
  - (polymer network preparation; optical data carrier with polymer network in information layer)
- RN 769934-93-2 HCAPLUS
- CN 2,4-Pentadienoic acid, 2-cyano-5-[(2-hydroxyethyl)methylamino]-, 2-[(2-methyl-1-oxo-2-propenyl)oxylethyl ester, homopolymer (9CI) (CA INDEX NAME)
  - CM 1
  - CRN 769934-78-3
  - CMF C15 H20 N2 O5

- RN 769935-06-0 HCAPLUS
- CN 2,4-Pentadienoic acid, 2-cyano-5-[methyl[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, homopolymer (9C1) (CA INDEX NAME)
  - CM
  - CRN 769935-05-9
  - CMF C19 H24 N2 O6

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TC
    ICM G11B007-24
CC
    74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other
    Reprographic Processes)
                                                        19660-17-4P
IT
    4485-89-6P
                 5807-04-5P
                            16672-33-6P 17739-45-6P
    21115-26-4P
                  21761-72-8P
                               28799-82-8P
                                             42271-11-4P
                                                          86219-64-9P
    111653-59-9P
                  126858-63-7P
                                  170297-67-3P
                                                174097-08-6P
    769934-49-8P
                  769934-50-1P
                                  769934-51-2P
                                                769934-52-3P
                                                769934-56-7P
    769934-53-4P
                  769934-54-5P
                                  769934-55-6P
    769934-57-8P
                   769934-58-9P
                                 769934-59-0P
                                                769934-60-3P
    769934-61-4P
                  769934-62-5P
                                 769934-63-6P
                                                769934-64-7P
    769934-65-8P
                  769934-66-9P
                                 769934-67-0P
                                                769934-68-1P
                  769934-70-5P
    769934-69-2P
                                 769934-71-6P 769934-72-7P
    769934-73-8P 769934-74-9P
                                769934-75-0P
                                               769934-76-1P
    769934-77-2P 769934-78-3P 769934-79-4P
    769934-80-7P
                  769934-81-8P
                                  769934-82-9P
        (monomer preparation for polymer network; optical data carrier with
       polymer network in information layer)
                                 769934-86-3P
    769934-83-0P 769934-85-2P
                                                769934-87-4P
    769934-88-5P
                  769934-90-9P
                                 769934-91-0P
                                                769934-92-1P
    769934-93-2P
                 769934-95-4P 769934-97-6P
                                                769934-99-8P
    769935-00-4P
                  769935-01-5P 769935-02-6P
                                               769935-04-8P
    769935-06-0P
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(polymer network preparation; optical data carrier with polymer network in information layer)

L12 ANSWER 8 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN 2003:934985 HCAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 141:89730

TITLE . Synthesis and characterization of terpolymer of

poly(ethylene oxide) macromonomer and acrylamide and methyl methacrylate

AUTHOR(S): Sun, Li-lin; Feng, Song; Li, Oing-hai; Shen, Liang-jun

CORPORATE SOURCE: College of Chemistry and Materials Science, Anhui Normal Univ., Wuhu, 241000, Peop. Rep. China SOURCE: Anhui Shifan Daxue Xuebao, Ziran Kexueban (2003),

26(3), 249-252 CODEN: ASDXA8

PUBLISHER: Anhui Shifan Daxue Xuebao Bianjibu

DOCUMENT TYPE: Journal LANGUAGE: Chinese ED Entered STN: 01 Dec 2003

AB Ethylene oxide was polymerized with an anion initiator of Na sulfadiazine and end-capped with methacrylic acid chloride to prepare a macromonomer, which was radically polymerized with the title monomers. The terpolymer had water contact angle 24° and formed films easily using chloroform as a solvent.

714249-68-0P

(synthesis and characterization of poly(ethylene oxide) macromonomer and polymers with acrylamide and Me methacrylate)

RN 714249-68-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -[2-[[[4-[(2-methyl-1-oxo-2-

# 10/576,892

propenyl)amino]phenyl]sulfonyl]-2-pyrimidinylamino]ethoxy]poly(oxy-1,2-ethanediyl) and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 714249-67-9

CMF (C2 H4 O)n C20 H22 N4 O5 S

CCI PMS

CM 2

CRN 80-62-6

CMF C5 H8 O2

CM 3

CRN 79-06-1

CMF C3 H5 N O

IT 714249-67-9E

(synthesis and characterization of poly(ethylene oxide) macromonomer and polymers with acrylamide and Me methacrylate)

RN 714249-67-9 HCAPLUS

CN Poly(oxy-1,2-ethanediy1), a-(2-methyl-1-oxo-2-propenyl)-o[2-[[[4-[(2-methyl-1-oxo-2-propenyl)amino]phenyl]sulfonyl]-2pyrimidinylamino]ethoxy]- (9CI) (CA INDEX NAME)

# 10/576,892

CC 37-3 (Plastics Manufacture and Processing)

IT 714249-68-OP

(synthesis and characterization of poly(ethylene oxide) macromonomer and polymers with acrylamide and Me methacrylate)

IT 714249-67-9P

(synthesis and characterization of poly(ethylene oxide) macromonomer and polymers with acrylamide and Me methacrylate)

L12 ANSWER 9 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2000:484355 HCAPLUS Full-text

DOCUMENT NUMBER: 133:112451

TITLE: Heat development photosensitive material for printing platemaking

INVENTOR(S): Muramatsu, Yasuhiko
PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

ED Entered STN: 18 Jul 2000

- AB The title photosensitive material contains, on a support, an organic Ag salt, photosensitive Ag halide grains, a reducing agent, and either (1) a compound having ≥2 cyclic acid anhydride groups, (2) a compound having ≥2 acetal groups, or (3) a compound having ≥2 2-substituted acrylate groups or (4) ≥1 carbodismide compound and ≥1 acid anhydride. The material shows improved film strength and storage stability and high contrast even upon storage for a long time.
- IT 283595-24-4 283595-26-6

(photothermog. material containing acid anhydride, acetal compound, acrylate, or carbodiimide)

- RN 283595-24-4 HCAPLUS
- CN 2-Propenoic acid, 2-(aminocarbonyl)-,
  - 1,2-ethanedivlbis(oxv-2,1-ethanedivl) ester (9CI) (CA INDEX NAME)

283595-26-6 HCAPLUS

CN 2-Propenoic acid, 2-[(phenylamino)carbonyl]-, 2-(acetyloxy)-1,3-propanediyl ester (9CI) (CA INDEX NAME)

$$\mathtt{Phnh} = \overset{\circ}{\mathtt{C}} = \overset{\circ}{\mathtt{C}} = \overset{\circ}{\mathtt{C}} = \overset{\circ}{\mathtt{C}} - \circ - \circ + \circ + \circ = \overset{\circ}{\mathtt{C}} + \circ + \circ + \circ = \overset{\circ}{\mathtt{C}} - \overset{\circ}{\mathtt{C}} - \overset{\circ}{\mathtt{C}} + \circ = \overset{\circ}{\mathtt{C}}$$

ICM G03C001-498

CC 74-7 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT 64-19-7, Acetic acid, uses 65-85-0, Benzoic acid, uses 76-05-1, Perfluoroacetic acid, uses 79-09-4, Propanoic acid, uses 85-43-8 85-44-9, 1,3-Isobenzofurandione 88-99-3, Phthalic acid, uses 89-05-4, 1,2,4,5-Benzenetetracarboxylic acid 89-32-7 98-11-3, Benzenesulfonic acid, uses 104-15-4, 4-Methylbenzenesulfonic acid, uses 108-30-5, uses 108-55-4 124-04-9, Hexanedioic acid, uses 124-07-2, Octanoic acid, uses 538-75-0 622-16-2 632-58-6, Tetrachlorophthalic acid 1732-96-3 1732-97-4 1892-57-5 2421-28-5 3543-39-3 4037-32-5 4316-23-8, 4-Methylphthalic acid 109359-61-7 188957-14-4 240812-03-7 283594-95-6 283594-96-7 283594-97-8 283594-98-9 283594-99-0 283595-00-6 283595-01-7 283595-02-8 283595-03-9 283595-04-0 283595-05-1 283595-06-2 283595-08-4 283595-09-5 283595-10-8 283595-11-9 283595-12-0 283595-13-1 283595-14-2 283595-15-3 283595-16-4 283595-17-5 283595-18-6 283595-19-7 283595-20-0 283595-21-1 283595-22-2 283595-23-3 283595-24-4 283595-25-5 283595-26-6 283595-27-7

> (photothermog. material containing acid anhydride, acetal compound, acrylate, or carbodiimide)

L12 ANSWER 10 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1998:250647 HCAPLUS Full-text

128:271471 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 128:53725a,53728a

TITLE: Production of an article coated with a crosslinked

pressure-sensitive adhesive

INVENTOR(S): Winslow, Louis E.; Bennett, Greggory S.; Babu, Gaddam N.; Hattam, Paul; Tumev, Michael L.;

Velamakanni, Bhaskar V.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA SOURCE: U.S., 17 pp., Cont.-in-part of U.S. Ser. No.

386,890, abandoned. CODEN: USXXAM

DOCUMENT TYPE: Pat.ent. LANGUAGE:

English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

# 10/576,892

US 5741543 US 1996-676366 19980421 19960718 A WO 9624644 A1 19960815 WO 1996-US1827 19960209 W: CA, JP, KR, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE PRIORITY APPLN. INFO.: US 1995-386890 B2 19950210

WO 1996-US1827 W 19960209

OTHER SOURCE(S):

MARPAT 128:271471 ED Entered STN: 02 May 1998

AB A composition is coated onto a substrate and crosslinked so as to form a pressure-sensitive adhesive (PSA), by polymerizing free radically

polymerizable monomers having pendent unsatn. in the polymer component, other unsatd. monomer, photoinitiator, optionally tackifier, plasticizer, inhibitor, and chain transfer agent. A PSA adhesive was prepared by polymerizing isooctyl acrylate, isobornyl acrylate, and acrylic acid to give a syrup, reacting with aziridinyl functional acrylate monomer, coating onto a PET film, and photocrosslinking.

TT 181884-43-5P 205496-34-0P

(crosslinked pressure-sensitive adhesive)

RN 181884-43-5 HCAPLUS

CN Alanine, 2-methyl-N-(1-oxo-2-propenyl)-,

2-[(1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 181884-42-4

CMF C12 H17 N O5

CM 2

CRN 29590-42-9

CMF C11 H20 O2

CCI IDS

CM 3

CRN 79-10-7

CMF C3 H4 O2

RN 205496-34-0 HCAPLUS

CN Alanine, 2-methyl-N-(2-methyl-1-oxo-2-propenyl)-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 205496-33-9 CMF C14 H21 N O5

$$\begin{array}{c} & \overset{\text{CH2}}{\longleftarrow} & \overset{\text{CH2}}{\longleftarrow}$$

CM 2

CRN 29590-42-9 CMF C11 H20 O2

CCI IDS

CM 3

CRN 79-10-7

CMF C3 H4 O2

IC ICM B05D005-10

INCL 427208400

CC 38-3 (Plastics Fabrication and Uses) Section cross-reference(s): 35, 42

IT 83133-95-3P 92094-52-5P 181884-20-8P 181884-22-0P 181884-24-2P 181884-26-4P 181884-27-5P 181884-28-6P 181884-30-0P 181884-32-2P 181884-34-4P 181884-38-8P 181884-40-2P 181884-43-5P 181884-52-6P 181884-54-8P 181884-55-9P

205496-32-8P 205496-34-0P 205496-35-1P

(crosslinked pressure-sensitive adhesive)

THERE ARE 47 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: 47 THIS RECORD. ALL CITATIONS AVAILABLE IN THE

RE FORMAT

L12 ANSWER 11 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN 1997:810256 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 128:23255

ORIGINAL REFERENCE NO.: 128:4565a,4568a

TITLE:

2-Cyano-2,4-pentadienoic acid acrylic ester

reactive monomers, manufacture thereof, adhesives,

coatings, compositions, polymers, and

electron-beam and photoresists using the same INVENTOR(S): Kotzev, Dimiter Lubomirov

PATENT ASSIGNEE(S): Chemence Limited, UK

SOURCE: Brit. UK Pat. Appl., 22 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	API	PLICATION NO.		DATE
	GB 2311520 GB 2311520	A B	19971001 19990811	GB	1996-6328	-	19960326
	US 20040249099 US 7125942	A1 B2	20041209	US	2004-802074		20040315
PRIO	RITY APPLN. INFO.:			GB	1996-6328	A	19960326
				US	1997-55791P	P	19970815
				US	1998-131275	В1	19980810

OTHER SOURCE(S): MARPAT 128:23255

ED Entered STN: 01 Jan 1998

AB The title esters CH2:CHCH:C(CN)CO2R2O2CCR1:CH2 (R1 = H, Me; R2 = alkyl, alkenyl, alkynyl, alkoxyalkyl, polyoxyalkyl, aryl, cycloalkyl, heterocyclic, with or without substituents including halogens) are synthesized by reaction of acrolein with the corresponding (meth)aryloyl(poly)oxyalkyl cyanoacetates. The resultant reactive monomers containing multiple unsatn. are capable of anionic, cationic and free-radical polymerization yielding from rubbery or thermoplastic to highly crosslinked products depending on the degree of cure. The reactive monomers can be used for structural adhesives both in industry and medicine, for coatings, and in photo or electron beam resist manufacture

199331-04-9P

(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

RN 199331-04-9 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-,

20-methyl-19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-vl ester (CA INDEX NAME)

PAGE 1-A

H2C 0
Me C C O CH2 CH2 O C

PAGE 1-B

IT 199331-05-0P 199331-06-1P 199331-07-2P

(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

- RN 199331-05-0 HCAPLUS
- CN 2,4-Pentadienoic acid, 2-cyano-,

20-methyl-19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 199331-04-9

CMF C22 H33 N O9

PAGE 1-A

PAGE 1-B

- RN 199331-06-1 HCAPLUS
- CN 2,4-Pentadienoic acid, 2-cyano-, 17-methyl-16-oxo-3,6,9,12,15-pentaoxaoctadec-17-en-1-yl ester (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 199331-07-2 HCAPLUS

CN 2.4-Pentadienoic acid, 2-cvano-,

17-methyl-16-oxo-3,6,9,12,15-pentaoxaoctadec-17-en-1-yl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 199331-06-1 CMF C20 H29 N O8

PAGE 1-A

H2C \_Ŭ\_\_0\_0\_0H2\_0H2\_0-0GH2\_GH2\_0-0H2\_0H2\_0H2\_0H2\_0H2\_0H2\_

PAGE 1-B

IC ICM C07C255-07

ICS C08F020-50

35-2 (Chemistry of Synthetic High Polymers) Section cross-reference(s): 23, 38, 42, 74

53628-79-8P 199331-02-7P 199331-04-9P 199342-78-4P 199342-82-0P

(cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

199331-01-6P 199331-03-8P 199331-05-0P 199331-06-1P 199331-07-2P 199342-80-8P 199342-84-2P

> (cyanopentadienoic acid acrylic ester reactive monomers, manufacture thereof, adhesives, coatings, compns., polymers, and electron-beam and photoresists using the same)

L12 ANSWER 12 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1997:374148 HCAPLUS Full-text

DOCUMENT NUMBER: 126:349707

ORIGINAL REFERENCE NO.: 126:67883a,67886a

Preparing printing plates by electrophotography INVENTOR(S): Kato, Eiichi; Nakazawa, Yusuke; Ishii, Kazuo

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

Brit. UK Pat. Appl., 248 pp. SOURCE:

CODEN: BAXXDU DOCUMENT TYPE: Patent

LANGUAGE . English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	GB 2302063	A	19970108	GB 1996-12258	19960612
	GB 2302063	В	19990203		
	US 5700612	A	19971223	US 1996-661723	19960611
	JP 09062038	A	19970307	JP 1996-151364	19960612
RIOR	ITY APPLN. INFO.:			JP 1995-144885 A	19950612

PR

Entered STN: 14 Jun 1997 ED

Printing plates are prepared by forming a toner image on a peelable transfer layer containing a resin, capable of being removed by chemical reaction, on an electrophotog. light-sensitive element, providing an adhesive layer containing a thermoplastic resin only on the toner image, transferring the toner image together with the transfer layer and the adhesive layer from the element to a temporary receptor, transferring the toner image with the layers to a receiving material with a hydrophilic surface, and partially removing the transfer layer by chemical reaction. Printing plates which produce good prints can be obtained for a long period of time even when the thickness of the transfer layer is reduced or the transfer is conducted under low temperature, low pressure, and high speed.

188950-82-5, Benzvl methacrvlate; dodecvl

methacrylate; 2-[2-(hexyloxy)ethoxy]ethyl

methacrylate; 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl

11-[(2-methyl-1-oxo-2-propenyl)amino]undecanoate;2-sulfoethyl methacrylate graft copolymer

(preparation and use in preparing transfer layers for electrophotog. photoreceptors for manufacture of printing plates)

188950-82-5 HCAPLUS RN

Undecanoic acid, 11-[(2-methyl-1-oxo-2-propenyl)amino]-, CN

2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, 2-[2-(hexyloxy)ethoxy]ethyl

2-methyl-2-propenoate, phenylmethyl 2-methyl-2-propenoate and

2-sulfoethyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM

1

CRN 188950-81-4 CMF C21 H35 N O5

CM 2

CRN 183317-57-9

CMF C14 H26 O4

CM

- IC ICM G03G013-28
- CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
- II 26616-87-5, 1,3-Butadiene-styrene-vinyl acetate copolymer 188950-63-2, Acrylic acid; benzyl methacrylate; bis (methacryoxyethyl) butandioate; 2-butoxyethyl methacrylate; octadecyl methacrylate graft copolymer 188950-65-4, Acrylic acid; 3-butoxypropyl methacrylate; 2-phenylethyl methacrylate; octadecyl methacrylate; 2-phenylethyl methacrylate graft copolymer 188950-67-6, 2-Carboxyethyl acrylate; 2,3-diethoxypropyl methacrylate; dodecyl methacrylate; methyl methacrylate; 5-[3-{(2-methyl-1-oxo-2-propenyl)oxy}-1-oxopropoxylpentyl methacrylate; 5-[3-{(2-methyl-1-oxo-2-propenyl)oxy}-1-axopropoxylpentyl methacrylate; 5-[3-{(2-methyl-1-oxo-2-propenyl)oxy}-188950-68-7 188950-73-4 188950-73-4 188950-74-5 188950-75-6 188950-76-7 188950-77-2 188950-79-0 188950-80-3, Crotonic acid; ethenyl 2-[(1-oxo-2-propenyl)oxylethyl butanedioate; tridecyl methacrylate; vinyl acetate; vinyl valerate graft copolymer 188950-82-5, Benzyl methacrylate; dodecyl

methacrvlate; 2-[2-(hexvloxv)ethoxvlethvl

methacrylate; 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl

11-[(2-methyl-1-oxo-2-propenyl)aminolundecanoate; 2-sulfoethyl

methacrylate graft copolymer 188950-83-6 188950-85-8 188950-86-9

188950-99-4 188951-00-0 188951-01-1 188951-02-2 188951-03-3 188951-04-4 188951-05-5 188951-06-6 188951-07-7 188951-08-8

188951-09-9 188951-10-2 189120-14-7 189890-33-3

(preparation and use in preparing transfer layers for electrophotog. photoreceptors for manufacture of printing plates)

L12 ANSWER 13 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1996:607510 HCAPLUS Full-text

DOCUMENT NUMBER: 125:224057

ORIGINAL REFERENCE NO.: 125:41857a,41860a

TITLE:

Process for the production of an article coated with a crosslinked pressure sensitive adhesive

INVENTOR(S): Winslow, Louis E.; Bennett, Greggory S.; Babu, Gaddam N.; Hattam, Paul; Tumey, Michael L.;

Velamakanni, Bhaskar V.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA

SOURCE: PCT Int. Appl., 58 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

P	A.	TENT	NO.			KIN	)	DATE			API	PLI	CAT	ION	NO.			DAT	ſΕ	
W	О	9624	644			A1		1996	0815		WO	19	96-	US1	827			199	60:	209
		W:	CA,	JP,	KR,	US														
		RW:	AT,	BE,	CH,	DE,	DK,	, ES,	FR,	GB,	GE	٦,	ΙE,	ΙT	, LU,	MC,	NL	, E	PT,	SE
С	Α	2211	130			A1		1996	0815		CA	19	96-	221	1130			199	60:	209
E	P 808348				A1		1997	1126		EΡ	19	96-	905	452			199	60:	209	
E	P	8083	48			B1		1999	0506											
		R:	ES,	FR,	GB,	IT														
J	P	1150	0152			T		1999	0106		JP	19	96-	524	469			199	60	209
E	S	2133	944			Т3		1999	0916		ES	19	96-	905	452			199	960	209
U	S	5741	543			A		1998	0421		US	19	96-	676	366			199	960	718
PRIORI	T	APP	LN.	INFO	. :						US	19	95-	386	890	I	12	199	50:	210

OTHER SOURCE(S): MARPAT 125:224057

Entered STN: 12 Oct 1996

AR Substrates are coated with mixts. comprising pressure-sensitive adhesive polymers containing pendant unsatd. groups, 0-10,000 phr unsatd. monomer, and photochem, initiators, and crosslinked by exposing to energy. An adhesive was prepared by polymerizing isooctyl acrylate and acrylic acid to give a syrup, reacting with allyl 2-methacryloxyethylcarbamate, coating onto a PET film, and photocrosslinking.

WO 1996-US1827

W 19960209

181884-43-5P 181884-46-8P

(process for the production of an article coated with a crosslinked pressure sensitive adhesive)

RN 181884-43-5 HCAPLUS

CN Alanine, 2-methyl-N-(1-oxo-2-propenyl)-,

2-[(1-oxo-2-propenvl)oxylethyl ester, polymer with isooctyl

2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

# 10/576,892

CM 1 CRN 181884-42-4 CMF C12 H17 N O5 - 0— CH2— CH2— О— С— СН**—** СН2 CM 2 CRN 29590-42-9 CMF C11 H20 O2 CCI IDS CM 3 CRN 79-10-7 CMF C3 H4 O2 RN 181884-46-8 HCAPLUS CN Alanine, 2-methyl-N-(1-oxo-2-propenyl)-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with isooctyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME) CM 1 CRN 181884-45-7 CMF C13 H19 N O5

$$\begin{array}{c} \text{NH} - \overset{\circ}{\mathbb{C}} - \text{CH} \underline{\hspace{0.2cm}} \text{CH}_{2} \\ \text{Me} - \overset{\circ}{\mathbb{C}} - \overset{\circ}{\mathbb{C}} - \text{OH}_{2} - \text{CH}_{2} - \text{OH}_{2} - \overset{\circ}{\mathbb{C}} - \overset{\circ}{\mathbb{C}} - \overset{\circ}{\mathbb{C}} - \overset{\circ}{\mathbb{C}} \\ \text{Me} \end{array}$$

CM 2

CRN 29590-42-9 CMF C11 H20 O2

CCI IDS

CM 3

CRN 79-10-7 CMF C3 H4 O2

ICM C09J004-06 ICS C09J007-02

38-3 (Plastics Fabrication and Uses)

83133-95-3P 181884-20-8P 181884-22-0P 181884-24-2P 181884-26-4P 181884-27-5P 181884-28-6P 181884-30-0P

181884-32-2P 181884-34-4P 181884-36-6P 181884-38-8P 181884-40-2P 181884-43-5P 181884-46-8P

181884-49-1P 181884-52-6P 181884-54-8P

181884-55-9P

(process for the production of an article coated with a crosslinked

pressure sensitive adhesive)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN 1996:440909 HCAPLUS Full-text ACCESSION NUMBER:

125:87452 DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 125:16513a,16516a

TITLE . Removal of acidic impurities and acid precursors from 2-cyanoacrylate ester monomers by passage through a column containing a metal, a metal

oxide, or metal hydride.

INVENTOR(S): Dyatlov, Valery Alexandrovich; Maleev, Viktor;

Guseva, Tatiana

PATENT ASSIGNEE(S): Saldane Ltd., Ire.
SOURCE: PCT Int. Appl., 30 r

PCT Int. Appl., 30 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 9614292	A1 19960517	WO 1995-IE53	19951018
W: AM, AU, BR,	CA, CN, DE, FI,	GB, HU, JP, KP, KR, I	MX, NO, NZ,
PL, RO, RU,	UA, US		
RW: BE, CH, DE,	DK, ES, FR, GB,	GR, IE, IT, LU, MC, 1	NL, PT, SE
AU 9537531	A 19960531	AU 1995-37531	19951018
PRIORITY APPLN. INFO.:		IE 1994-864	A 19941104

ED Entered STN: 26 Jul 1996

AB Non-enolizable esters, especially liquid non-distillable esters of 2cyanoacrylic acid, are purified (to remove contaminating volatile acids and
acid precursors) by passage through a metallic reagent, optionally dispersed
on a solid insol. (inert or reactive) support, that reacts with and removes
the acids or precursors. The metallic reagent is chosen from a metal, a metal
oxide, and a non-reducing metal hydride (e.g., Li, Na, K, Ca, Al, Fe, MgO,
CaO, Al2O3, CaH2, etc.). The cyanoacrylate ester is dissolved in an inert
solvent and then passed through the column at from -20° to 150° (preferably
20-40°) to prevent thermal reactions. After passage through the metallic
reagent-containing bed, the purified cyanoacrylate ester monomer is stabilized
by addition of a polymerization inhibitor.

WO 1995-IE53 W 19951018

IT 165177-64-0P 178886-11-8P

(purification of; by passage through reactive metal-containing column for removal of acidic impurities)

RN 165177-64-0 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)

RN 178886-11-8 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester (9CI) (CA INDEX NAME)

IC ICM C07C253-34

ICS C07C255-23; C07C253-34

CC 35-2 (Chemistry of Synthetic High Polymers)

# 10/576,892

IT 15802-18-3DP, esters 165177-61-7P 165177-64-0P

165177-65-1P 178886-10-7P 178886-11-8P

(purification of; by passage through reactive metal-containing column for removal of acidic impurities)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1995:693082 HCAPLUS Full-text

DOCUMENT NUMBER: 123:56820

ORIGINAL REFERENCE NO.: 123:10251a,10254a

TITLE: Preparation of esters of 2-cyanoacrylic acid and

use of the esters as adhesives

INVENTOR(S): Dyatlov, Valery Alexandrovich; Katz, Georgy

Arkadievich

PATENT ASSIGNEE(S): Eurotax Ltd., Ire.

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent.

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 9415907	A1 19940721		19940110
RW: AT, BE, CH,	DE, DK, ES, FR, G	JP, KR, NO, NZ, PL, R GB, GR, IE, IT, LU, M	C, NL, PT, SE
AU 9457142 JP 08505383	A 19940815 T 19960611		19940110 19940110
PRIORITY APPLN. INFO.:		RU 1993-1196	A 19930111
		IE 1993-599	A 19930810
		WO 1994-IE2	W 19940110

MARPAT 123:56820 OTHER SOURCE(S):

ED Entered STN: 22 Jul 1995

AB The title esters, including non-distillable esters, are prepared by reacting 2-cyanoacrylic acid (I) or an acid halide of I with an alc., diol, polyol, or phenol in the presence of an inert organic solvent under polymerizationinhibiting conditions (and also in the presence of an acid catalyst when I is a reactant), continually removing the water or H halide produced, and recovering the ester. The esters are useful in adhesive compns, and for linear and crosslinked polymers. A diester was prepared by reacting I with 1,8-octanediol in benzene containing p-toluenesulfonic acid and SO2.

165177-64-0P, Diethylene glycol bis(2-cyanoacrylate)

(preparation and uses of)

165177-64-0 HCAPLUS RN

CN 2-Propenoic acid, 2-cyano-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} {}^{\rm H2C} \\ {}^{\rm NC} - \overset{\circ}{\mathbb{U}} - \overset{\circ}{\mathbb{U}} - \overset{\circ}{\mathrm{ch}}_2 \\ \end{array}$$

- TC ICM C07C253-30
- CC 35-2 (Chemistry of Synthetic High Polymers) Section cross-reference(s): 23, 25, 37
- TT 9003-17-2DP, Polybutadiene, hydroxy-terminated, cyanoacrylate esters 10029-40-0P, Ethylene glycol bis(2-cyanoacrylate) 15802-18-3DP, 2-Cyanoacrylic acid, esters with hydroxy-terminated polybutadiene 60723-09-3P, 1,8-Octanediol bis(2-cyanoacrylate) 102375-54-2P, Hexadecvl 2-cvanoacrvlate 132132-61-7DP, 2-Cvanoacrvlovl chloride, esters with hydroxy-terminated polybutadiene 158275-95-7P. 2-Carboxyethyl 2-cyanoacrylate 158312-77-7P, Polyethylene glycol mono(4-tert-octylphenyl) ether mono(2-cyanoacrylate) 165177-60-6P, Bisphenol A bis(2-cvanoacrylate) 165177-61-7P 165177-62-8P 165177-63-9P 165177-64-0P, Diethylene glycol bis(2-cyanoacrylate) 165177-65-1P, Ethylene glycol

mono(2-cyanoacrylate) monomethacrylate

(preparation and uses of)

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 16 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1995:677203 HCAPLUS Full-text

DOCUMENT NUMBER: 123:145606

ORIGINAL REFERENCE NO.: 123:25949a,25952a

TITLE: Polymerizable enamines, their preparation and their use

INVENTOR(S):

Rheinberger, Volker; Moszner, Norbert; Salz,

Ulrich

PATENT ASSIGNEE(S): Ivoclar AG, Liechtenstein Eur. Pat. Appl., 17 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P	PATENT NO.						KIND		DATE		PLICATION NO.		DATE
-													
E	P	6343	93			A1		19950	118	EP	1994-250166		19940624
E	EP 634393					B1		19970	917				
		R:	CH,	DE,	FR,	GB,	IT,	LI,	NL				
D	Œ	4323	617			A1		19950	119	DE	1993-4323617		19930712
J	ſΡ	0720	6794			A		19950	808	JP	1994-159038		19940711
J	ſΡ	1002	5270			A		19980	127	JP	1997-72503		19940711
PRIORI	TY	APP:	LN. I	INFO	. :					DE	1993-4323617	A	19930712

JP 1994-159038 A3 19940711

Entered STN: 15 Jul 1995

AB The enamines R5CH:C(A)O[R1HXm]1C(:Y)CH:C(R4)N(R2)R3Zn[I; A = H, alkvl; O =CO2, CONH, C6H4, arylene; R1 = alkylene, oxyalkylene, C6H5, arylene; R2 = H, alkyl, aryl; R3 = H, alkyl, aryl; (n = 0) alkylene, arylene; R4 = alkyl; R = H, Ph, CO2H, carboxyalkyl, CN; X = O, S, NH; Y = O, S, Z = functional group; 1 = ≥1; m, n = 0, 11 are obtained from R5CH:C(A)O[R1HXm]1C(:Y)CH2C(:Y)R4 and R2NH2, R2NHR3Zn, R3NHR2NHR3, or HN(R3Zn)R2NHR3Zn and may be used for the preparation of polymers and dental compns. Thus, 2-(acetoacetoxy)ethyl methacrylate was treated with BuNH2 to give an enamine methacrylate which could be radically polymerized

164914-67-4P

(enamine polymers for dental compns.)

RN 164914-67-4 HCAPLUS

CN 4,7-Dioxa-11,18-diazaheneicosa-9,19-dien-21-oic acid,

2,10,13,13,15,19-hexamethyl-3,8-dioxo-,

2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with

1,10-decanediyl bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM

CRN 164914-66-3

CMF C29 H46 N2 O8

PAGE 1-B

CM 2

CRN 6701-13-9

CMF C18 H30 O4

IT 155915-10-9P 155915-11-0P 155915-12-1P 155915-13-2P 164914-66-3P

(polymerizable enamines for dental compns.)

RN 155915-10-9 HCAPLUS

N 11,14-Dioxa-4,7-diazaheptadeca-2,8,16-trienoic acid,

3,8,16-trimethyl-10,15-dioxo-,

2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

- RN 155915-11-0 HCAPLUS
- CN 12,15-Dioxa-4,8-diazaoctadeca-2,9,17-trienoic acid,
  - 3,9,17-trimethyl-11,16-dioxo-,
  - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

$$\begin{array}{c} & \text{Me} \\ \text{NH-} (\text{CH}_2)_3 - \text{NH-} \underbrace{t}_{\text{CH-}} \text{CH-} \underbrace{t}_{\text{CO-}} \text{CH}_2 - \text{CH}_2 - \text{O} \underbrace{t}_{\text{CH-}} \underbrace{t}_{\text{CH-}} \text{Me} \\ \text{Me-} \underbrace{t}_{\text{CH-}} \text{CH-} \underbrace{cH_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2}_{\text{H_2}} - \underbrace{t}_{\text{CH-}} \text{Me} \\ \end{array}$$

- RN 155915-12-1 HCAPLUS
- CN 15,18-Dioxa-4,11-diazaheneicosa-2,12,20-trienoic acid,
- 3,12,20-trimethyl-14,19-dioxo-,
- 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{MH}-\text{(CH}_2)\text{ 6-NH}-\overset{\text{Me}}{\text{--}}\text{CH}-\overset{\text{O}}{\text{--}}\text{CH}_2-\text{CH$$

- RN 155915-13-2 HCAPLUS
- CN 19,22-Dioxa-4,15-diazapentacosa-2,16,24-trienoic acid,
  - 3,16,24-trimethyl-18,23-dioxo-,
  - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

$$\begin{array}{c} & \text{NH-} (\text{CH}_2)_{10} - \text{NH-} \underbrace{\overset{\text{Me}}{=}}_{\text{CH-}C} \text{CH-}\underbrace{\overset{\text{CH}_2}{=}}_{\text{CH-}C} \text{CH}_2 - \text{CH}_2 - \text{CH}_2} \\ \text{Me-} \underbrace{\overset{\text{CH}_2}{=}}_{\text{CH-}C} \text{CH-}\underbrace{\overset{\text{CH}_2}{=}}_{\text{CH-}C} \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2} \\ \text{Me-} \underbrace{\overset{\text{CH}_2}{=}}_{\text{CH-}C} \text{CH-}\underbrace{\overset{\text{CH}_2}{=}}_{\text{CH-}C} \text{CH}_2 - \text{$$

- RN 164914-66-3 HCAPLUS
- CN 15,18-Dioxa-4,11-diazaheneicosa-2,12,20-trienoic acid, 3,7,9,9,12,20-hexamethyl-14,19-dioxo-,
  - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

PAGE 1-B

IT 156057-35-1P

(polymerizable enamines for dental compns.)

- RN 156057-35-1 HCAPLUS
- CN Poly[oxy(methyl-1,2-ethanediyl)],

 $\alpha$ -[methyl-2-[[1-methyl-3-[2-[(2-methyl-1-oxo-2-

propenyl)oxyjethoxyj-3-oxo-1-propenyl]aminojethyl]-o-[methyl-2-[[1-methyl-3-[2-[(2-methyl-1-0xo-2-propenyl)oxyjethoxy]-3-oxo-1-propenyl]aminojethoxyj- (9CI) (CA INDEX NAME)

2 ( D1-Me )

PAGE 1-B

IC ICM C07C229-30 ICS C08F020-36; C08F246-00; A61K006-083

CC 37-3 (Plastics Manufacture and Processing)

- Section cross-reference(s): 38, 63
- IT 164914-67-4P
  - (enamine polymers for dental compns.)

IT 155915-03-0P 155915-04-1P 155915-05-2P 155915-06-3P 155915-07-4P 155915-09-6P 155915-10-9P

- 155915-11-0P 155915-12-1P 155915-13-2P
- 164914-65-2P 164914-66-3P
- (polymerizable enamines for dental compns.)
- IT 155915-15-4P 156057-35-1P

(polymerizable enamines for dental compns.)

L12 ANSWER 17 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1995:499837 HCAPLUS Full-text DOCUMENT NUMBER: 123:171988

ORIGINAL REFERENCE NO.: 123:30677a,30680a

TITLE: Manufacture of polyhydric alcohol cyanoacrylates for heat-, water-, and solvent-resistant adhesives

INVENTOR(S): Unno, Asako; Takahashi, Shin; Okuyama, Toshio

PATENT ASSIGNEE(S): Toa Gosei Kk, Japan SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07033726	A	19950203	JP 1993-200180	19930721
PRIORITY APPLN. INFO.:			JP 1993-200180	19930721

OTHER SOURCE(S): MARPAT 123:171988

ED Entered STN: 20 Apr 1995

AB The title compds. are prepared by esterification of saponified  $\alpha$ -cyanoacrylate-1,3-diene Diels-Alder adducts with polyhydric alcs., then thermal decomposition of the resulting polyhydric alc. cyanoacrylate-diene adducts. Thus, Et cyanoacrylate was reacted with cyclopentadiene in xylene at room temperature for 1 h, saponified with KOR 14 60° for 1 h, estrified with decanediol in the presence of p-MeC6H4SO3H and hydroquinone under reflux for 8 h, and refluxed in the presence of Me cyanoacrylate, hydroquinone, and p-MeC6H4SO3H at 138° for 1 h to give 58.4% decanediol big (cyanoacrylate) (I). An adhesive composition containing I showed good adhesiveness and solvent resistance.

IT 167356-82-3P

(adhesive; preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)

RN 167356-82-3 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] ester, polymer with ethyl 2-cyano-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 167228-08-2 CMF C17 H22 N2 O6

CCI IDS

3 ( D1\_Me )

CM 2

CRN 7085-85-0

CMF C6 H7 N O2

TT 167228-08-2P

(preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)

RN 167228-08-2 HCAPLUS

CN 2-Propenoic acid, 2-cyano-, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] ester (9CI) (CA INDEX NAME)

3 ( D1\_Me )

IC ICM C07C255-23

ICS C07C253-30

CC 38-3 (Plastics Fabrication and Uses) Section cross-reference(s): 23, 35

IT 166657-25-6P 167356-82-3P

(adhesive; preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)

IT 60755-41-1P 167228-08-2P

(preparation of polyhydric alc. cyanoacrylates for heat-, water-, and solvent-resistant adhesives)

L12 ANSWER 18 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1994:436228 HCAPLUS Full-text

DOCUMENT NUMBER: 121:36228

ORIGINAL REFERENCE NO.: 121:6719a,6722a

TITLE: Reaction behavior of monomeric  $\beta$ -ketoesters.

2. Synthesis, characterization and polymerization

of methacrylate group containing enamines Moszner, Norbert; Salz, Ulrich; Rheinberger,

AUTHOR(S): Moszn

Volker

CORPORATE SOURCE: Ivoclar AG, Schaan, FL-9494, Liechtenstein

SOURCE: Polymer Bulletin (Berlin, Germany) (1994), 32(4),

119-26

CODEN: POBUDR; ISSN: 0170-0839

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 23 Jul 1994

AB Polymerizable enamines were synthesized by the reaction of 2-acetoacetoxyethyl methacrylate (AAEMA) with various aliphatic mono- and diamines. The enamines were characterized by elemental analyses, IR, IH NMR and 13C NMR spectroscopy. Radical polymerization of synthesized enamines yielded polymers with pendant enamine groups which were also prepared by the reaction of poly(AAEMA) with the corresponding amines.

IT 155915-10-9P 155915-11-0P 155915-12-1P 155915-13-2P 155915-14-3P 156057-35-1P

(preparation and characterization of)

- RN 155915-10-9 HCAPLUS
- CN 11,14-Dioxa-4,7-diazaheptadeca-2,8,16-trienoic acid,
  - 3,8,16-trimethyl-10,15-dioxo-,
  - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)
- RN 155915-11-0 HCAPLUS
- CN 12,15-Dioxa-4,8-diazaoctadeca-2,9,17-trienoic acid,
- 3,9,17-trimethyl-11,16-dioxo-,
  - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

$$\begin{array}{c} \text{Me} & \text{O} \\ \text{NH-} & (\text{CH}_2) \text{ }_3 - \text{NH-} \\ \text{CH-} & \text{CH-} \\ \text{CO-} & \text{CH}_2 - \text{CH}_2 \\ \text{O} - \text{CH}_2 - \text{CH}_2 - \text{O} \\ \text{O} - \text{CH}_2 \\ \text{O} - \text{CH}_2 - \text{CH}_2 \\ \text{O} - \text{CH}_2 - \text{O} \\ \text{O} - \text{CH}_2 \\ \text{O} - \text{CH}_2 - \text{O} \\ \text{O} - \text{CH}_2 \\ \text{O} - \text{CH}$$

- RN 155915-12-1 HCAPLUS
- CN 15,18-Dioxa-4,11-diazaheneicosa-2,12,20-trienoic acid,
  - 3,12,20-trimethyl-14,19-dioxo-,
    - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

- RN 155915-13-2 HCAPLUS
- CN 19,22-Dioxa-4,15-diazapentacosa-2,16,24-trienoic acid,
  - 3,16,24-trimethyl-18,23-dioxo-,
  - 2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

$$\begin{array}{c} & \text{Me} & \text{O} & \text{CH2} \\ \text{NH} - (\text{CH2}) \ 10 - \text{NH} - \underbrace{\text{CH}}_{-} \text{CH} - \underbrace{\text{CH}}_{-} \text{CH}_{-} \text{CH2} - \underbrace{\text{CH}}_{-} \text{CH2} \\ \text{Me} - \underbrace{\text{CH}}_{-} \text{CH}_{-} \text{CH2} - \underbrace{\text{CH}}_{-} \text{CH2} - \underbrace{\text{CH}}_{-} \text{CH2} \\ \text{CH2} \end{array}$$

RN 155915-14-3 HCAPLUS

CN 13,16-Dioxa-4,9-diazanonadeca-2,10,18-trienoic acid,
3,6,8,8,10,18-hexamethyl-12,17-dioxo-,
2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl ester (CA INDEX NAME)

PAGE 1-B

RN 156057-35-1 HCAPLUS

CN Poly(oxy(methyl-1,2-ethanediyl)],  $\alpha-[methyl-2-[(1-methyl-3-[2-(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxo-1-propenyl]mino]ethyl]-<math>\omega-[methyl-2-[(1-methyl-3-[2-(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxo-1-propenyl]mino]ethoxy]-(9C1) (CA INDEX NAME)$ 

2 ( D1-Me )

PAGE 1-B

CC 35-2 (Chemistry of Synthetic High Polymers)

IT 155915-06-3P 155915-09-6P 155915-10-9P

155915-11-0P 155915-12-1P 155915-13-2P 155915-14-3P 155915-16-5P 155915-17-6P 155915-18-7P 155915-19-8P 155915-20-1P 155915-21-2P 156057-35-1P

(preparation and characterization of)

L12 ANSWER 19 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1991:472341 HCAPLUS Full-text

DOCUMENT NUMBER: 115:72341

ORIGINAL REFERENCE NO.: 115:12529a,12532a

TITLE: Poly(ammonium alkoxydicyanoethenolates) as new

hydrophobic and highly dipolar poly(zwitterions).

Synthesis

AUTHOR(S): Pujol-Fortin, Marie Laure; Galin, Jean Claude CORPORATE SOURCE: Inst. Charles Sadron, Strasbourg, 67083, Fr.

SOURCE: Macromolecules (1991), 24(16), 4523-30

CODEN: MAMOBX: ISSN: 0024-9297

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 23 Aug 1991

The nucleophilic ring-opening of dicyanoketene ethylene or propylene acetals by tertiary amine vinyl monomers readily leads to new crystalline zwitterionic monomers. Sixteen monomers were obtained with yields >70%, and their polymerization at 60° initiated by AIBN was straightforward. Mol. wts. of a

methacrylate series were controlled from 5 + 106 to 1 + 105 using 2mercaptoethanol as a transfer agent.

134310-75-1P

(preparation and polymerization of)

134310-75-1 HCAPLUS RN

CN 1-Propanaminium, 3-[(2,2-dicyano-1-hydroxyethenyl)oxy]-N,N-diethyl-N-[2-[2-[(2-methyl-1-oxo-2-propen-1-vl)oxylethoxylethyl]-, inner salt (CA INDEX NAME)

35-4 (Chemistry of Synthetic High Polymers)

109509-78-6P 134287-27-7P 134287-28-8P 134287-30-2P

134287-31-3P 134287-32-4P 134287-33-5P 134287-34-6P 134287-35-7P 134287-36-8P 134287-37-9P 134287-38-0P

134287-39-1P 134287-40-4P 134287-41-5P 134310-75-1P

(preparation and polymerization of)

L12 ANSWER 20 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1988:206349 HCAPLUS Full-text

DOCUMENT NUMBER: 108:206349

ORIGINAL REFERENCE NO.: 108:33905a,33908a

TITLE: Actinic radiation-curable (meth)acrylamide

derivative compositions for coatings Takamatsu, Yukishige; Sato, Mitsuo INVENTOR(S):

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkvo Koho, 7

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62232410	A	19871012	JP 1986-75587	19860403
JP 05062883	В	19930909		
PRIORITY APPLN. INFO.:			JP 1986-75587	19860403

ED Entered STN: 11 Jun 1988

AB Rapid-curing title compns. giving coatings with good hardness contain CH2:CR3CONRIR2(OCCCR3:CH2)n-1 [R1 = H, hydrocarby1, (meth)acryloyloxyalky1; R2 = n-valent hydrocarby1, R3 = H, Me; n = 2-4]. Thus, N, N-bis(acryloyloxyethy1)acrylamide (I; prepared by amidation of diethanolamine with acryloylo chloride and esterification with acrylication 2; ethylene glycol-phthalic anhydride copolymer acrylate (mol. weight 630) 75, and α,α-dimethoxy-α-phenylacetophenone 4 parts were mixed, applied to tinplate, dried, and irradiated under a Hg lamp (80 W/cm2) on a belt conveyer (20 m/min) to give a 50-μ coating with pencil hardness H. Coatings could not be obtained when trimethylolpropane triacrylate, ethylene glycol diacrylate, 1,6-h hexanediol diacrylate, neopentyl glycol diacrylate, or 2-ethylhexyl acrylate was used instead of I.

IT 114494-26-7

(coatings, quickly cured by actinic radiation, with good hardness)

RN 114494-26-7 HCAPLUS

CN

2-Propenoic acid, 1-[[(1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester, polymer with α-(1-oxo-2-propenyl)-ω-[2-[(1-oxo-2-propenyl)oxy]ethoxy]poly(oxy-1,2-ethanediyloxycarbonyl-1,2-phenylenecarbonyl) (9CI) (CA INDEX NAME)

CM

CRN 57950-46-6 CMF C12 H15 N O5

CM 2

CRN 51617-61-9

CMF (C10 H8 O4)n C8 H10 O4

CCI PMS

IC ICM C08F020-58

CC 42-7 (Coatings, Inks, and Related Products)

IT 114494-23-4 114494-25-6 114494-26-7 114515-26-3

(coatings, quickly cured by actinic radiation, with good hardness)

L12 ANSWER 21 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1988:113131 HCAPLUS Full-text

DOCUMENT NUMBER: 108:113131

ORIGINAL REFERENCE NO.: 108:18549a,18552a

TITLE: Acrylamide derivatives and their polymers

INVENTOR(S): Suzuki, Yuji; Urano, Satoshi; Umemoto, Hirotoshi; Mizuguchi, Ryuzo; Aoki, Kei; Tsuboniwa, Noriyuki

PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA:	TENT NO.			KIND	DATE	API	PLICATION NO.		DATE
EP	243208			A2	19871028		1987-303697		
EP	243208			A3	19880120				
	R: CH,	DE,	FR,	GB, I	T, LI, NL				
CA	1289571			С	19910924	CA	1987-535498 1987-102598 1987-102599		19870424
JP	63045245			A	19880226	JP	1987-102598		19870425
JP	63045246			A	19880226	JP	1987-102599		19870425
JP	63046208			A	19880227	JP	1987-102600		19870425
JP	63046209			A	19880227	JP	1987-102601		
AU	8772114			A	19871029	AU	1987-72114		19870427
AU	597354			B2	19900531				
AU	8772115			A	19871029	AU	1987-72115		19870427
AU	598810			B2	19900705				
US	4914225			A	19900403	US	1987-42893		19870427
US	4956491			A	19900911 19911015	US	1987-42713		19870427
CA	1290765			С	19911015	CA	1987-535609		
US	5208308			A	19930504	US	1990-468281		19900122
US	4970281			A	19901113	US	1990-478150		19900209
US	5274062			A	19931228	US	1992-981190		19921124
PRIORIT	Y APPLN.	INFO	. :			JP	1986-97760	A	19860425
						JP	1986-97761	A	19860425
						US	1987-42713	А3	19870427
						US	1987-42893	АЗ	19870427
						US	1990-468281	А3	19900122

ED Entered STN: 01 Apr 1988

Highly reactive polymers bearing -CONHCOCO2R groups (R = hydrocarbyl) are AB useful in coatings, adhesives, and moldings. Adding 127 g oxalyl chloride over 30 min to 71 g acrylamide in 200 g CH2Cl2 at 0° gave a 50% solution of ClCH2CH2CONHCOCOC1, the reaction of 100 q of which with 13.8 q EtOH in CH2C12 at <25° gave 41.5 q C1CH2CH2CONHCOCO2Et, dehydrochlorination of which by Et3N in C6H6 at room temperature gave 86% CH2:CHCONHCOCO2Et (I), AIBN-initiated polymerization of I in dioxane-BuOAc at 100° gave a polymer (mol.weight 8940, polydispersity 5.25) which was coated on timplate and baked 3 h at 100° to give a 20-µ film with pencil hardness HB.

113282-96-5P

(preparation of)

RN 113282-96-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[oxo[(1-oxo-2-

propenyl)amino]acetyl]oxy]ethyl ester (9CI) (CA INDEX NAME)



TC ICM C08F020-58

ICS C07C103-92

CC 35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 23, 42

71496-13-4P 113125-89-6P 113125-90-9P 113125-91-0P 113125-95-4P 113125-92-1P 113125-93-2P 113125-94-3P 113125-96-5P 113126-01-5P 113126-03-7P 113282-96-5P (preparation of)

L12 ANSWER 22 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1988:76055 HCAPLUS Full-text 108:76055

DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.: 108:12599a,12602a

TITLE:

Alpha-alkylacrylamide derivatives and their

polymers

INVENTOR(S):

Suzuki, Yuji; Urano, Satoshi; Umemoto, Hirotoshi; Mizuguchi, Ryuzo; Aoki, Kei; Tsuboniwa, Noriyuki

Nippon Paint Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE: Eur. Pat. Appl., 37 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA:	ENT I	NO.			KIN	)	DATE	:	APE	PLICATION NO.	DATE
						-					
EP	2432	07			A2		1987	1028	EP	1987-303696	19870427
EP	2432	07			A3		1988	30120			
	R:	CH,	DE,	FR,	GB,	IT,	LI,	NL			
CA	1289	571			C		1991	.0924	CA	1987-535498	19870424
JP	6304	5245			A		1988	0226	JP	1987-102598	19870425
JΡ	6304	5246			A		1988	0226	JP	1987-102599	19870425
JΡ	6304	6208			A		1988	0227	JP	1987-102600	19870425
JP	6304	6209			Α		1988	30227	JP	1987-102601	19870425
AU	8772	114			A		1987	1029	AU	1987-72114	19870427

AU 597354	B2	19900531				
AU 8772115	A	19871029	AU	1987-72115		19870427
AU 598810	B2	19900705				
US 4914225	A	19900403	US	1987-42893		19870427
US 4956491	A	19900911	US	1987-42713		19870427
CA 1290765	C	19911015	CA	1987-535609		19870427
US 5208308	A	19930504	US	1990-468281		19900122
US 4970281	A	19901113	US	1990-478150		19900209
US 5274062	A	19931228	US	1992-981190		19921124
PRIORITY APPLN. I	NFO.:		JP	1986-97760	A	19860425
			JP	1986-97761	A	19860425
			US	1987-42713	A3	19870427
			US	1987-42893	A3	19870427
			US	1990-468281	A3	19900122

OTHER SOURCE(S):

CASREACT 108:76055

ED Entered STN: 05 Mar 1988

AB Polymers from monomers bearing the groups -CONHCOCOR (R = hydrocarbon chain bearing ≥1 lower alkyl group) are useful in coatings, adhesives, and moldings. Adding 78.5 g EtOCOCOC1 over 2.5 h to a refluxing solution of 49.1 g methacrylamide in 288.5 mL C6H6 and refluxing 5 h gave 45.8 g CH2: CMeCONHCOCO2Et (I). Adding I 8.8, Me methacrylate 8.8, styrene 12.4, 2hydroxyethyl methacrylate 11.8, Bu acrylate 8.2, and AIBN 1.0 g over 2 h to 15 g EtOCH2CH2OAc and 25 g BuOAc at 100°; adding 0.5 g AIBN and 10 g EtOCH2CH2OAc over 30 min, and heating 3 h gave a 50% solution of pale yellow polymer with mol. weight 7700.

- IΤ 112852-28-5P 112852-29-6P 112871-36-0P
- (preparation of)
- RN 112852-28-5 HCAPLUS
- 2-Propenoic acid, 2-methyl-, 2-[[2-[(2-methyl-1-oxo-2-propen-1-CN v1)amino]-2-oxoacetv1]oxv]ethv1 ester (CA INDEX NAME)



- RN 112852-29-6 HCAPLUS
- 2-Propenoic acid, 2-methyl-, 2-[[[(2-methyl-1-oxo-2-CN propenyl)amino]oxoacetyl]oxy]ethyl ester, polymer with ethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)
  - CM
  - CRN 112852-28-5
  - CMF C12 H15 N O6



```
CM 2
    CRN 100-42-5
    CMF C8 H8
 Hoc== CH-Ph
    CM 3
    CRN 80-62-6
    CMF C5 H8 O2
  H2C
 we_II_II_
RN
    112871-36-0 HCAPLUS
    2-Propenoic acid, 2-methyl-, 2-[[[(2-methyl-1-oxo-2-
CN
     propenyl)amino]oxoacetyl]oxy]ethyl ester, homopolymer (9CI) (CA INDEX
    NAME)
    CM 1
    CRN 112852-28-5
     CMF C12 H15 N O6
 Me U U O CH2 CH2 O U U NH U U M
    ICM C08F020-58
IC
     TCS C07C103-92
     35-2 (Chemistry of Synthetic High Polymers)
     Section cross-reference(s): 23, 28, 42
                                               112832-12-9P
ΙT
     112832-09-4P 112832-10-7P 112832-11-8P
     112832-13-0P
                  112832-14-1P
                                 112832-15-2P
                                               112832-16-3P
     112832-17-4P 112832-18-5P
                                 112832-19-6P 112832-20-9P
     112832-21-0P 112832-22-1P
                                112832-23-2P
                                              112832-24-3P
                                               112832-28-7P
     112832-25-4P
                 112832-26-5P
                                112832-27-6P
     112832-29-8P
                 112832-30-1P
                                112832-31-2P
                                               112832-32-3P
     112832-33-4P
                  112832-34-5P
                                 112832-35-6P 112852-28-5P
     112852-29-6P 112871-36-0P 112915-28-3P
        (preparation of)
L12 ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                       1977:406190 HCAPLUS Full-text
```

DOCUMENT NUMBER: 87:6190

ORIGINAL REFERENCE NO.: 87:1001a,1004a

Unsaturated esters and amides of diphosphonic TITLE:

Sugiyama, Iwakichi; Takaoka, Yukihisa; Hijikata, INVENTOR(S):

Mamoru; Endo, Kitoshi

PATENT ASSIGNEE(S): Matsumoto Seiyaku Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkvo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE:

Japanese FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51143619	A	19761210	JP 1975-67497	19750606
JP 59008279	В	19840223		
PRIORITY APPLN. INFO.:			JP 1975-67497 A	19750606

ED Entered STN: 12 May 1984

Polymerizable unsatd. esters or amides of [(HO)2P(O)]2CROH (I, R = AB hydrocarbon) were prepared by reaction of I (or its salt) with one or more polymerizable unsatd, compds, containing oxiranyl groups or at least one amino group. The esters and amides are used in the preparation of water-soluble adhesives or resinous compns. Thus, 34.3 parts 60% aqueous I (R = Me) and 56.8 parts glycidyl methacrylate were stirred at room temperature for 40-50 min to give a homog. transparent liquid [R1R2P(O)]2CROH II, [R = Me; R1 = R2 = CH2:CMeCO2CH2CH(OH)CH2O(Q)]. The liquid 10, (NH4)2S208 0.1, and ascorbic acid 0.2 part were heated to 50° under N 2 h giving a resin which had tensile strength 153 kg/cm2. Among 6 more II prepared were (R, R1R2 given): Ph, Q2; Me, [CH2:CHCH2OCH2CH(OH)CH2O]2; Me, [CH2:CMeCO2CH2CH(OH)CH2O](NaO); Me, (CH2:CHCONH)2.

62994-05-2P

(preparation of)

62994-05-2 HCAPLUS RN

5,9-Diaza-6,8-diphosphatrideca-2,11-dienedioic acid, 7-hydroxy-7-methyl-6,8-bis[[4-[2-[(2-methyl-1-oxo-2-propen-1yl)oxy]ethoxy]-1,4-dioxo-2-buten-1-yl]amino]-4,10-dioxo-, 1,13-bis[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl] ester, 6,8-dioxide (CA INDEX NAME)



PAGE 1-B

IC C07F009-40

CC 29-7 (Organometallic and Organometalloidal Compounds)

Section cross-reference(s): 35, 37

IT 62994-03-0P 62994-04-1P 62994-05-2P 62994-06-3P

63176-21-6P 63176-22-7P 63176-23-8P

(preparation of)

L12 ANSWER 24 OF 24 HCAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1976:60455 HCAPLUS Full-text

ACCESSION NUMBER: 19/6:60455 HCAPLUS FUII-TEXT

DOCUMENT NUMBER: 84:60455

ORIGINAL REFERENCE NO.: 84:9965a,9968a

TITLE: Polymeric adhesive composition

INVENTOR(S): Jones, Robert John; Green, Howard Edward; Vaughan,
Robert W.

PATENT ASSIGNEE(S): TRW Inc., USA

SOURCE: Ger. Offen., 23 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2520831	A1	19751120	DE 1975-2520831	19750509
US 3953544	A	19760427	US 1974-468705	19740510
AU 7580764	A	19761104	AU 1975-80764	19750502
JP 50153047	A	19751209	JP 1975-54174	19750506
NL 7505359	A	19751112	NL 1975-5359	19750507
SE 7505394	A	19751111	SE 1975-5394	19750509
FR 2270309	A1	19751205	FR 1975-14560	19750509
FR 2270309	В3	19781117		
PRIORITY APPLN. INFO.:			US 1974-468705	19740510

ED Entered STN: 12 May 1984

- AB Acrylamidopolyol acrylates were mixed with 0-15% peroxide and 0-15% organic accelerator and used as adhesives for Al [7429-90-5], Ti, and their alloys. Thus, 2-acrylamido-2-ethyl-1,3-propanediol diacrylate [57950-40-0] was prepared by treating 2-amino-2-ethyl-1,3-propanediol [115-70-8] with 3 equivs. of acryloyl chloride [814-68-6] and was combined with 5% Me Et ketone peroxide and 5% Co naphthenate and used to adhere a strip of pure Al with a strip of a 6% Al-4% V-90% Ti alloy [11107-75-8], giving an adhesive bond which lost 0.0741% weight after 2 hr in boiling water and had lap shear strength 7.6 + 106 N/m2.
- IT 57950-45-5 57950-47-7

(adhesives, for aluminum and titanium)

RN 57950-45-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1-[[(2-methyl-1-oxo-2-propenyl)aminolmethyl]-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 57950-44-4 CMF C15 H21 N O5

- RN 57950-47-7 HCAPLUS
- CN 2-Propenoic acid, 1-[[(1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl
  ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 57950-46-6 CMF C12 H15 N O5

- II 57950-44-4P 57950-46-6P
  - (manufacture of, for adhesives for aluminum and titanium)
- RN 57950-44-4 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 1-[[(2-methyl-1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

- RN 57950-46-6 HCAPLUS
- CN 2-Propenoic acid, 1-[[(1-oxo-2-propenyl)amino]methyl]-1,2-ethanediyl ester (9CI) (CA INDEX NAME)

- IC C09J
- CC 36-3 (Plastics Manufacture and Processing) Section cross-reference(s): 56
- IT 57950-41-1 57950-43-3 57950-45-5 57950-47-7 57950-49-9
  - (adhesives, for aluminum and titanium)
- IT 57950-40-0P 57950-42-2P 57950-44-4P 57950-46-6P
  - 57950-48-8P

(manufacture of, for adhesives for aluminum and titanium)

#### => d his nofile (FILE 'HOME' ENTERED AT 07:39:07 ON 21 MAR 2009) FILE 'HCAPLUS' ENTERED AT 07:39:22 ON 21 MAR 2009 L1 1 SEA ABB=ON PLU=ON US20070043191/PN SEL RN FILE 'REGISTRY' ENTERED AT 07:39:33 ON 21 MAR 2009 L2 5 SEA ABB=ON PLU=ON (449754-21-6/BI OR 856221-40-4/BI OR 856221-41-5/BI OR 9033-79-8/BI OR 92092-95-0/BI) ACT BER892/A L3 STR L4 1 SEA SSS SAM L3 L5 STR L3 L6 26 SEA SSS SAM L5 4380 SEA SSS FUL L5 L7 L8 2 SEA ABB=ON PLU=ON L7 AND L2 SAV L7 BER892A/A L9 1 SEA SUB=L7 SSS SAM L3 L10 56 SEA SUB=L7 SSS FUL L3 2 SEA ABB=ON PLU=ON L10 AND L2 L11 SAV L10 BER892/A FILE 'HCAPLUS' ENTERED AT 07:48:56 ON 21 MAR 2009 L12 24 SEA ABB=ON PLU=ON L10 L13 1 SEA ABB=ON PLU=ON L11 FILE 'REGISTRY' ENTERED AT 07:51:20 ON 21 MAR 2009

0 SEA ABB=ON PLU=ON L7 AND SRU

0 SEA SUB=L7 SSS SAM L15

0 SEA SUB=L7 SSS FUL L15

STR L3

L14

L17

L15 L16